

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
17 March 2005 (17.03.2005)

PCT

(10) International Publication Number
WO 2005/023878 A1

- (51) International Patent Classification⁷: **C08F 2/44**, **C08K 5/00**
- (21) International Application Number:
PCT/EP2004/051980
- (22) International Filing Date:
1 September 2004 (01.09.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
03103348.3 11 September 2003 (11.09.2003) EP
- (71) Applicant (for all designated States except US): **CIBA SPECIALTY CHEMICALS HOLDING INC.** [CH/CH]; Klybeckstrasse 141, CH-4057 Basel (CH).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **SCHELLENBERG, Carsten** [DE/DE]; Guntramstrasse 23, 79106 Freiburg (DE). **AUSCHRA, Clemens** [DE/DE]; Rennweg 7, 79106 Freiburg (DE). **PETER, Wolfgang** [DE/DE]; Murtennerstrasse 14, 79395 Neuenburg am Rhein (DE). **RENOUX, Delphine** [FR/FR]; 8, rue François Coli, F-68100 Mulhouse (FR). **HAYOZ, Pascal** [CH/CH]; Ettingerstrasse 55, CH-4114 Hofstetten (CH).
- (74) Common Representative: **CIBA SPECIALTY CHEMICALS HOLDING INC.**; Patent Department, Klybeckstrasse 141, CH-4057 Basel (CH).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
- with international search report
 - before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: WATER BASED CONCENTRATED PRODUCT FORMS OF LIGHT STABILIZERS MADE BY A HETEROPHASE POLYMERIZATION TECHNIQUE

(57) Abstract: The instant invention pertains to a concentrated aqueous dispersion of organic light stabilizers with a particle size of less than 1000 nm, prepared by heterophase radical polymerization of ethylenically unsaturated monomers in the presence of the light stabilizers, wherein the weight ratio of light stabilizer to polymeric carrier is greater than 50/100. Another aspect of the invention is a process for the preparation of such aqueous dispersions with high light stabilizer content. Aqueous dispersions prepared according to this process are useful ingredients for adhesives, aqueous emulsions of natural or synthetic rubbers, water based inks or a water based coating compositions, which are consequently also subjects of the invention.

WO 2005/023878 A1